## CHAPTER 11 Color

The graphics devices that DATAPLOT supports vary widely in the degree of color support. However, for the sake of device independence, all devices recognize the same set of color names and color indices. If a given device does not support a requested color, DATAPLOT maps it to the closest available supported color (closest is somewhat arbitrary, although we tried to be reasonably consistent).

DATAPLOT borrowed its color scheme from Release 3 of X11 with a few additions from Release 4. The X Window System is a computer independent protocol developed at MIT for supporting windowing and graphics applications in a networked environment. It uses the RGB values from Release 4 for devices that support direct RGB specification (currently Postscript and CGM). Although these values should be reasonably robust, different devices will generate different colors from them.

The color examples throughout this manual use gray scales due to the costs of color reproduction. You are encouraged to generate the examples using some of the colors listed below.

The following list are the colors that DATAPLOT recognizes. Only the first 4 characters of the color name are significant and colors can be specified either by name or by index.

COLOR	INDEX	NAME
=====	====	=======
WHITE	0	WHIT
BLACK	1	BLAC
RED	2	RED
BLUE	3	BLUE
GREEN	4	GREE
MAGENTA	5	MAGE
ORANGE	6	ORAN
CYAN	7	CYAN
YELLOW	8	YELL
YELLOW GREEN	9	YGRE
DARK GREEN	10	DGRE
LIGHT BLUE	11	LBLU
BLUE VIOLET	12	VBLU
VIOLET RED	13	VRED
DARK SLATE GRAY	14	DGRA, DGRY
LIGHT GRAY	15	LGRA, LGRY
AQUAMARINE	16	AQUA
BROWN	17	BROW
CADET BLUE	18	CABL
CORAL	19	CORA
CORNFLOWER BLUE	20	CBLU
DARK OLIVE GREEN	21	DOGR
DARK ORCHID	22	DORC
DARK SLATE BLUE	23	DSBL
DARK TURQUOISE	24	DTUR
FIREBRICK	25	FIRE
FOREST GREEN	26	FGRE

GOLD GOLDENROD GOLDENROD GOLDENROD GOLDENROD GRAY GRAY 29 GRAY, GREY INDIAN RED 30 IRED KHAKI 31 KHAK DIM GRAY 32 DMGR LIGHT STEEL BLUE 33 LISBL LIME GREEN 34 LGRE MAROON 35 MARO MEDIUM AQUAMARINE 36 MAQU MEDIUM AQUAMARINE 37 MBLU MEDIUM FOREST GREEN 38 MFGR LIGHT GOLDENROD YEL 39 MGLD MEDIUM SA GREEN MEDIUM SA GREEN MEDIUM SA GREEN MEDIUM SPRING GREEN 41 MEDIUM SPRING GREEN 43 MEDIUM TURQUOISE 44 MEDIUM TURQUOISE 44 MEDIUM TURQUOISE MEDIUM TURQUOISE MEDIUM TURQUOISE MEDIUM 49 ORANGE RED ORANGE RED ORANGE RED ORANGE RED ORCHID 49 PALE GREEN 50 PGRE PINK 51 PINK 66 PINK 66 PINT 66 PIN	COLOR	INDEX	NAME ======
GOLDENROD         28         GLDR           GRAY         29         GRAY, GREY           INDIAN RED         30         IRED           KHAKI         31         KHAK           DIM GRAY         32         DMGR           LIGHT STEEL BLUE         33         LSBL           LIME GREEN         34         LGRE           MAROON         35         MARO           MEDIUM AQUAMARINE         36         MAQU           MEDIUM POREST GREEN         38         MFGR           LIGHT GOLDENROD YEL         39         MGLD           MEDIUM ORCHID         40         MGCD           MEDIUM ORCHID         40         MGCD           MEDIUM SEA GREEN         41         MSGR           MEDIUM SPRING GREEN         43         MSPG           MEDIUM SPRING GREEN         43         MSPG           MEDIUM VIOLET RED         45         MVRD           MIDNIGHT BLUE         46         MDBL           NAVY BLUE         47         NAVY           ORAHGE RED         48         ORED           ORCHID         49         ORCH           PALE GREEN         50         PGRE           PILW			
GRAY         29         GRAY, GREY           INDIAN RED         30         IRED           KHAKI         31         KHAK           DIM GRAY         32         DMGR           LIGHT STEEL BLUE         33         LSBL           LIME GREEN         34         LGRE           MAROON         35         MARO           MEDIUM QUAMARINE         36         MAQU           MEDIUM FOREST GREEN         38         MFGR           MEDIUM FOREST GREEN         38         MFGR           LIGHT GOLDENROD YEL         39         MGLD           MEDIUM ORCHID         40         MORC           MEDIUM SEA GREEN         41         MSGR           MEDIUM SEA GREEN         41         MSGR           MEDIUM SPRING GREEN         43         MSPG           MEDIUM TURQUOISE         44         MTUR           MEDIUM VIOLET RED         45         MVRD           MIDNIGHT BLUE         46         MDBL           NAVY         BUR         ORCH           PALE GREEN         50         PCRE           PINK         51         PINK           PINK         51         PINK           PURP			
INDIAN RED			
KHAKI         31         KHAK           DIM GRAY         32         DMGR           LIGHT STEEL BLUE         33         LSBL           LIME GREEN         34         LGRE           MAROON         35         MARO           MEDIUM AQUAMARINE         36         MAQU           MEDIUM FOREST GREEN         38         MFGR           LIGHT GOLDENROD YEL         39         MGLD           MEDIUM ORCHID         40         MORC           MEDIUM SEA GREEN         41         MSGR           MEDIUM SEA GREEN         41         MSGR           MEDIUM SEATE BLUE         42         MSBL           MEDIUM SPRING GREEN         43         MSPG           MEDIUM TURQUOISE         44         MTUR           MEDIUM TURQUOISE         48         ORED           ORCHID         49         ORCH           PALE GREEN         50         PGRE <td></td> <td></td> <td></td>			
DIM GRAY         32         DMGR           LIGHT STEEL BLUE         33         LSBL           LIME GREEN         34         LGRE           MAROON         35         MARO           MEDIUM AQUAMARINE         36         MAQU           MEDIUM FOREST GREEN         38         MFGR           MEDIUM FOREST GREEN         38         MFGR           LIGHT GOLDENROD YEL         39         MGLD           MEDIUM SCAREEN         41         MSGR           MEDIUM SEA GREEN         41         MSGR           MEDIUM SLATE BLUE         42         MSBL           MEDIUM SPRING GREEN         43         MSPG           MEDIUM VOLET RED         45         MYRD           MEDIUM VOLET RED         45         MYRD           MIDNIGHT BLUE         46         MDBL           NAVY BLUE         47         NAVY           ORANGE RED         48         ORED           ORCHID         49         ORCH           PALE GREEN         50         PGRE           PINK         51         PINK           PLUM         52         PLUM           PUPLE         53         PURP           SALMON			
LIGHT STEEL BLUE         33         LSBL           LIME GREEN         34         LGRE           MAROON         35         MARO           MEDIUM AQUAMARINE         36         MAQU           MEDIUM BLUE         37         MBLU           MEDIUM BLUE         37         MBLU           MEDIUM FOREST GREEN         38         MFGR           LIGHT GOLDENROD YEL         39         MGLD           MEDIUM ORCHID         40         MORC           MEDIUM SEA GREEN         41         MSGR           MEDIUM SEA GREEN         41         MSGR           MEDIUM SEA GREEN         43         MSPG           MEDIUM TURQUOISE         44         MTUR           MEDIUM TURQUOISE         44         MTUR           MEDIUM TURQUOISE         45         MVRD           MIDNIGHT BLUE         46         MDBL           NAVY BLUE         47         NAVY           ORCHD         ORCH         PORCH           PALE GREEN         50         PGRE			
LIME GREEN         34         LGRE           MAROON         35         MARO           MEDIUM AQUAMARINE         36         MAQU           MEDIUM BLUE         37         MBLU           MEDIUM FOREST GREEN         38         MFGR           LIGHT GOLDENROD YEL         39         MGLD           MEDIUM ORCHID         40         MORC           MEDIUM SEA GREEN         41         MSGR           MEDIUM SEA GREEN         41         MSGR           MEDIUM SLATE BLUE         42         MSBL           MEDIUM SPRING GREEN         43         MSPG           MEDIUM TURQUOISE         44         MTUR           MEDIUM TURQUOISE         44         MTUR           MEDIUM TURQUOISE         44         MTUR           MEDIUM TURQUOISE         44         MTUR           MEDIUM VIOLET RED         45         MVRD           MIDINIGHT BLUE         46         MDBL           NAVY BLUE         47         NAVY           ORCHD         48         ORED           ORCHID         49         ORCH           PALE GREEN         50         PGRE           PINK         51         PINK			
MAROON         35         MARO           MEDIUM AQUAMARINE         36         MAQU           MEDIUM BUE         37         MBLU           MEDIUM FOREST GREEN         38         MFGR           LIGHT GOLDENROD YEL         39         MGLD           MEDIUM ORCHID         40         MORC           MEDIUM SEA GREEN         41         MSGR           MEDIUM SEA GREEN         41         MSGR           MEDIUM SLATE BLUE         42         MSBL           MEDIUM SPRING GREEN         43         MSPG           MEDIUM VIOLET RED         45         MVRD           MIDNIGHT BLUE         46         MDBL           NAVY BLUE         47         NAVY           ORANGE RED         48         ORED           ORCHID         49         ORCH           PALE GREEN         50         PGRE           PINK         51         PINK           PLUM         52         PLUM           PURPLE         53         PURP           SALMON         54         SALM           SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57			
MEDIUM AQUAMARINE         36         MAQU           MEDIUM BLUE         37         MBLU           MEDIUM FOREST GREEN         38         MFGR           LIGHT GOLDENROD YEL         39         MGLD           MEDIUM ORCHID         40         MORC           MEDIUM SEA GREEN         41         MSGR           MEDIUM SEA GREEN         41         MSPG           MEDIUM SPRING GREEN         43         MSPG           MEDIUM TURQUOISE         44         MTUR           MEDIUM TURQUOISE         44         MVRD           MIDNIGHT BLUE         46         MDBL           NAVY BLUE         47         NAVY           ORANGE RED         48         ORED           ORCHID         49         ORCH           PALE GREEN         50         PGRE           PINK         51         PINK           PLUM         52         PLUM			
MEDIUM BLUE         37         MBLU           MEDIUM FOREST GREEN         38         MFGR           LIGHT GOLDENROD YEL         39         MGLD           MEDIUM SCAGREN         41         MSGR           MEDIUM SEA GREEN         41         MSGR           MEDIUM SLATE BLUE         42         MSBL           MEDIUM SUGGREEN         43         MSPG           MEDIUM TURQUOISE         44         MTUR           MEDIUM VIOLET RED         45         MVRD           MIDNIGHT BLUE         46         MDBL           NAVY BLUE         47         NAVY           ORANGE RED         48         ORED           ORCHID         49         ORCH           PALE GREEN         50         PGRE           PINK         51         PINK           PUUM         52         PLUM           PUPPLE         53         PURP           SALMON         54         SALM           SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59 </td <td></td> <td></td> <td></td>			
MEDIUM FOREST GREEN         38         MFGR           LIGHT GOLDENROD YEL         39         MGLD           MEDIUM ORCHID         40         MORC           MEDIUM SEA GREEN         41         MSGR           MEDIUM SEAGREN         43         MSPG           MEDIUM SPRING GREEN         43         MSPG           MEDIUM VIOLET RED         45         MVRD           MEDIUM VIOLET RED         45         MVRD           MIDNIGHT BLUE         46         MDBL           NAVY BLUE         47         NAVY           ORANGE RED         48         ORED           ORCHID         49         ORCH           PALE GREEN         50         PGRE           PINK         51         PINK           PUM         52         PLUM           PURPLE         53         PURP           SALMON         54         SALM           SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           STATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEEL BLUE         60 <td></td> <td></td> <td></td>			
LIGHT GOLDENROD YEL         39         MGLD           MEDIUM ORCHID         40         MORC           MEDIUM SEA GREEN         41         MSGR           MEDIUM SLATE BLUE         42         MSBL           MEDIUM SPRING GREEN         43         MSPG           MEDIUM TURQUOISE         44         MTUR           MEDIUM VIOLET RED         45         MVRD           MIDNIGHT BLUE         46         MDBL           NAVY BLUE         47         NAYY           ORANGE RED         48         ORED           ORCHID         49         ORCH           PALE GREEN         50         PGRE           PINK         51         PINK           PLUM         52         PLUM           PURPLE         53         PURP           SALMON         54         SALM           SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEEL BLUE         60         STBL           TAN         61 <t< td=""><td></td><td></td><td></td></t<>			
MEDIUM ORCHID         40         MORC           MEDIUM SEA GREEN         41         MSGR           MEDIUM SLATE BLUE         42         MSBL           MEDIUM SPRING GREEN         43         MSPG           MEDIUM TURQUOISE         44         MTUR           MEDIUM VIOLET RED         45         MVRD           MIDNIGHT BLUE         46         MDBL           NAVY         MORCH         MAPY           ORANGE RED         48         ORED           ORCHID         49         ORCH           PALE GREEN         50         PGRE           PINK         51         PINK           PLUM         52         PLUM           PURPLE         53         PURP           SALMON         54         SALM           SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEEL BLUE         60         STBL           TAN         61         TAN           THIS         TURQ			
MEDIUM SEA GREEN         41         MSGR           MEDIUM SLATE BLUE         42         MSBL           MEDIUM SPRING GREEN         43         MSPG           MEDIUM TURQUOISE         44         MTUR           MEDIUM VIOLET RED         45         MVRD           MIDNIGHT BLUE         46         MDBL           NAVY BLUE         47         NAVY           ORANGE RED         48         ORED           ORCHID         49         ORCH           PALE GREEN         50         PGRE           PINK         51         PINK           PLUM         52         PLUM           PURPLE         53         PURP           SALMON         54         SALM           SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEEL BLUE         60         STBL           TAN         61         TAN           THISTLE         62         THIS           TURQUOISE         63         TURQ     <			
MEDIUM SPRING GREEN         43         MSPG           MEDIUM TURQUOISE         44         MTUR           MEDIUM VIOLET RED         45         MVRD           MIDNIGHT BLUE         46         MDBL           NAVY BLUE         47         NAVY           ORANGE RED         48         ORED           ORCHID         49         ORCH           PALE GREEN         50         PGRE           PINK         51         PINK           PLUM         52         PLUM           PURPLE         53         PURP           SALMON         54         SALM           SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEL BLUE         60         STBL           TAN         61         TAN           THISTLE         62         THIS           TURQUOISE         63         TURQ           VIOLET         64         VIOL           WHEAT         65         WHEA           <			
MEDIUM SPRING GREEN         43         MSPG           MEDIUM TURQUOISE         44         MTUR           MEDIUM VIOLET RED         45         MVRD           MIDNIGHT BLUE         46         MDBL           NAVY BLUE         47         NAVY           ORANGE RED         48         ORED           ORCHID         49         ORCH           PALE GREEN         50         PGRE           PINK         51         PINK           PLUM         52         PLUM           PURPLE         53         PURP           SALMON         54         SALM           SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEEL BLUE         60         STBL           TAN         61         TAN           THISTUE         62         THIS           TURQUOISE         63         TURQ           VIOLET         64         VIOL           WHEAT         65         WHEA			
MEDIUM TURQUOISE         44         MTUR           MEDIUM VIOLET RED         45         MVRD           MIDNIGHT BLUE         46         MDBL           NAVY BLUE         47         NAVY           ORANGE RED         48         ORED           ORCHID         49         ORCH           PALE GREEN         50         PGRE           PINK         51         PINK           PLUM         52         PLUM           PURPLE         53         PURP           SALMON         54         SALM           SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEL BLUE         60         STBL           TAN         61         TAN           THISTURQUOISE         63         TURQ           VIOLET         64         VIOL           WHEAT         65         WHEA           GREEN YELLOW         66         GYEL           LIGHT CYAN         67         LCYA           <	MEDIUM SLATE BLUE	42	MSBL
MEDIUM VIOLET RED         45         MVRD           MIDNIGHT BLUE         46         MDBL           NAVY BLUE         47         NAVY           OR ANGE RED         48         ORED           ORCHID         49         ORCH           PALE GREEN         50         PGRE           PINK         51         PINK           PLUM         52         PLUM           PURPLE         53         PURP           SALMON         54         SALM           SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEEL BLUE         60         STBL           TAN         61         TAN           THIST         10L         TURQ           VIOLET         64         VIOL           WHEAT         65         WHEA           GREEN YELLOW         66         GYEL           LIGHT CYAN         67         LCYA           BLUE2         68         BLU2           BLUE4	MEDIUM SPRING GREEN	43	MSPG
MIDNIGHT BLUE         46         MDBL           NAVY BLUE         47         NAVY           ORANGE RED         48         ORED           ORCHID         49         ORCH           PALE GREEN         50         PGRE           PINK         51         PINK           PLUM         52         PLUM           PURPLE         53         PURP           SALMON         54         SALM           SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEEL BLUE         60         STBL           TAN         61         TAN           THISTLE         62         THIS           TURQUOISE         63         TURQ           VIOLET         64         VIOL           WHEAT         65         WHEA           GREEN YELLOW         66         GYEL           LIGHT CYAN         67         LCYA           BLUE2         68         BLU3           BLUE4 <t< td=""><td>MEDIUM TURQUOISE</td><td>44</td><td>MTUR</td></t<>	MEDIUM TURQUOISE	44	MTUR
NAVY BLUE         47         NAVY           ORANGE RED         48         ORED           ORCHID         49         ORCH           PALE GREEN         50         PGRE           PINK         51         PINK           PLUM         52         PLUM           PURPLE         53         PURP           SALMON         54         SALM           SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEEL BLUE         60         STBL           TAN         61         TAN           THISTLE         62         THIS           TURQUOISE         63         TURQ           VIOLET         64         VIOL           WHEAT         65         WHEA           GREEN YELLOW         66         GYEL           LIGHT CYAN         67         LCYA           BLUE3         69         BLU3           BLUE4         70         BLU4           CYAN2         71 <td>MEDIUM VIOLET RED</td> <td>45</td> <td>MVRD</td>	MEDIUM VIOLET RED	45	MVRD
ORANGE RED         48         ORED           ORCHID         49         ORCH           PALE GREEN         50         PGRE           PINK         51         PINK           PLUM         52         PLUM           PURP E         53         PURP           SALMON         54         SALM           SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEEL BLUE         60         STBL           TAN         61         TAN           THISTLE         62         THIS           TURQUOISE         63         TURQ           VIOLET         64         VIOL           WHEAT         65         WHEA           GREEN YELLOW         66         GYEL           LIGHT CYAN         67         LCYA           BLUE2         68         BLU2           BLUE3         69         BLU3           BLUE4         70         BLU4           CYAN2         71	MIDNIGHT BLUE	46	MDBL
ORCHID         49         ORCH           PALE GREEN         50         PGRE           PINK         51         PINK           PLUM         52         PLUM           PURPLE         53         PURP           SALMON         54         SALM           SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEEL BLUE         60         STBL           TAN         61         TAN           THISTLE         62         THIS           TURQUOISE         63         TURQ           VIOLET         64         VIOL           WHEAT         65         WHEA           GREEN YELLOW         66         GYEL           LIGHT CYAN         67         LCYA           BLUE2         68         BLU2           BLUE3         69         BLU3           BLUE4         70         BLU4           CYAN3         72         CYA3           CYAN4         73	NAVY BLUE	47	NAVY
PALE GREEN         50         PGRE           PINK         51         PINK           PLUM         52         PLUM           PURPLE         53         PURP           SALMON         54         SALM           SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEEL BLUE         60         STBL           TAN         61         TAN           THISTILE         62         THIS           TURQUOISE         63         TURQ           VIOLET         64         VIOL           WHEAT         65         WHEA           GREEN YELLOW         66         GYEL           LIGHT CYAN         67         LCYA           BLUE2         68         BLU2           BLUE3         69         BLU3           BLUE4         70         BLU4           CYAN2         71         CYA2           CYAN3         72         CYA3           CYAN4         73	ORANGE RED	48	ORED
PINK         51         PINK           PLUM         52         PLUM           PURPLE         53         PURP           SALMON         54         SALM           SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEEL BLUE         60         STBL           TAN         61         TAN           THISTILE         62         THIS           TURQUOISE         63         TURQ           VIOLET         64         VIOL           WHEAT         65         WHEA           GREEN YELLOW         66         GYEL           LIGHT CYAN         67         LCYA           BLUE2         68         BLU2           BLUE3         69         BLU3           BLUE4         70         BLU4           CYAN2         71         CYA2           CYAN3         72         CYA3           CYAN4         73         CYA4           GREEN2         74 <td< td=""><td>ORCHID</td><td>49</td><td>ORCH</td></td<>	ORCHID	49	ORCH
PLUM         52         PLUM           PURPLE         53         PURP           SALMON         54         SALM           SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEEL BLUE         60         STBL           TAN         61         TAN           THIS         TURQ         TURQ           VIOLET         64         VIOL           WHEAT         65         WHEA           GREEN YELLOW         66         GYEL           LIGHT CYAN         67         LCYA           BLUE2         68         BLU2           BLUE3         69         BLU3           BLUE4         70         BLU4           CYAN2         71         CYA2           CYAN3         72         CYA3           CYAN4         73         CYA4           GREEN2         74         GRE2           GREEN3         75         GRE3           GREEN4         76         GR	PALE GREEN	50	PGRE
PURPLE         53         PURP           SALMON         54         SALM           SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEEL BLUE         60         STBL           TAN         61         TAN           THISTLE         62         THIS           TURQUOISE         63         TURQ           VIOLET         64         VIOL           WHEAT         65         WHEA           GREEN YELLOW         66         GYEL           LIGHT CYAN         67         LCYA           BLUE2         68         BLU2           BLUB3         69         BLU3           BLUE4         70         BLU4           CYAN2         71         CYA2           CYAN3         72         CYA3           CYAN4         73         CYA4           GREEN2         74         GRE2           GREEN3         75         GRE3           GREEN4         76	PINK	51	PINK
PURPLE         53         PURP           SALMON         54         SALM           SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEEL BLUE         60         STBL           TAN         61         TAN           THISTLE         62         THIS           TURQUOISE         63         TURQ           VIOLET         64         VIOL           WHEAT         65         WHEA           GREEN YELLOW         66         GYEL           LIGHT CYAN         67         LCYA           BLUE2         68         BLU2           BLUB3         69         BLU3           BLUE4         70         BLU4           CYAN2         71         CYA2           CYAN3         72         CYA3           CYAN4         73         CYA4           GREEN2         74         GRE2           GREEN3         75         GRE3           GREEN4         76	PLUM	52	PLUM
SALMON         54         SALM           SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEEL BLUE         60         STBL           TAN         61         TAN           THISTLE         62         THIS           TURQUOISE         63         TURQ           VIOLET         64         VIOL           WHEAT         65         WHEA           GREEN YELLOW         66         GYEL           LIGHT CYAN         67         LCYA           BLUE2         68         BLU2           BLUE3         69         BLU3           BLUE4         70         BLU4           CYAN2         71         CYA2           CYAN3         72         CYA3           CYAN4         73         CYA4           GREEN2         74         GRE2           GREEN3         75         GRE3           GREEN4         76         GRE4           YELOW3         78	PURPLE		PURP
SEA GREEN         55         SGRE           SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEEL BLUE         60         STBL           TAN         61         TAN           THISTLE         62         THIS           TURQUOISE         63         TURQ           VIOLET         64         VIOL           WHEAT         65         WHEA           GREEN YELLOW         66         GYEL           LIGHT CYAN         67         LCYA           BLUE2         68         BLU2           BLUE3         69         BLU3           BLUE4         70         BLU4           CYAN2         71         CYA2           CYAN3         72         CYA3           CYAN4         73         CYA4           GREEN2         74         GRE2           GREEN3         75         GRE3           GREEN4         76         GRE4           YELOW2         77         YEL2           YELOW3         78	SALMON		SALM
SIENNA         56         SIEN           SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEL BLUE         60         STBL           TAN         61         TAN           THIS         TURQ         TURQ           TURQUOISE         63         TURQ           VIOLET         64         VIOL           WHEAT         65         WHEA           GREEN YELLOW         66         GYEL           LIGHT CYAN         67         LCYA           BLUE2         68         BLU2           BLUE3         69         BLU3           BLUE4         70         BLU4           CYAN2         71         CYA2           CYAN3         72         CYA3           CYAN4         73         CYA4           GREEN2         74         GRE2           GREEN3         75         GRE3           GREEN4         76         GRE4           YELLOW3         78         YEL3           YELLOW4         79         YEL4		55	
SKY BLUE         57         SKBL, SKYB           SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEL BLUE         60         STBL           TAN         61         TAN           THIS         THIS         TURQ           TURQUOISE         63         TURQ           VIOLET         64         VIOL           WHEAT         65         WHEA           GREEN YELLOW         66         GYEL           LIGHT CYAN         67         LCYA           BLUE2         68         BLU2           BLUE3         69         BLU3           BLUE4         70         BLU4           CYAN2         71         CYA2           CYAN3         72         CYA3           CYAN4         73         CYA4           GREEN2         74         GRE2           GREEN3         75         GRE3           GREEN4         76         GRE4           YELOW2         77         YEL2           YELLOW3         78         YEL3           YELLOW4         79         YEL4			
SLATE BLUE         58         SBLU           SPRING GREEN         59         SPGR           STEL BLUE         60         STBL           TAN         61         TAN           THISTLE         62         THIS           TURQUOISE         63         TURQ           VIOLET         64         VIOL           WHEAT         65         WHEA           GREEN YELLOW         66         GYEL           LIGHT CYAN         67         LCYA           BLUE2         68         BLU2           BLUE3         69         BLU3           BLUE4         70         BLU4           CYAN2         71         CYA2           CYAN3         72         CYA3           CYAN4         73         CYA4           GREEN2         74         GRE2           GREEN3         75         GRE3           GREEN4         76         GRE4           YELLOW2         77         YEL2           YELLOW3         78         YEL3           YELLOW4         79         YEL4			
SPRING GREEN         59         SPGR           STEEL BLUE         60         STBL           TAN         61         TAN           THISTLE         62         THIS           TURQUOISE         63         TURQ           VIOLET         64         VIOL           WHEAT         65         WHEA           GREEN YELLOW         66         GYEL           LIGHT CYAN         67         LCYA           BLUE2         68         BLU2           BLUE3         69         BLU3           BLUE4         70         BLU4           CYAN2         71         CYA2           CYAN3         72         CYA3           CYAN4         73         CYA4           GREEN2         74         GRE2           GREEN3         75         GRE3           GREEN4         76         GRE4           YELLOW2         77         YEL2           YELLOW3         78         YEL3           YELLOW4         79         YEL4			
STEEL BLUE       60       STBL         TAN       61       TAN         THISTLE       62       THIS         TURQUOISE       63       TURQ         VIOLET       64       VIOL         WHEAT       65       WHEA         GREEN YELLOW       66       GYEL         LIGHT CYAN       67       LCYA         BLUE2       68       BLU2         BLUE3       69       BLU3         BLUE4       70       BLU4         CYAN2       71       CYA2         CYAN3       72       CYA3         CYAN4       73       CYA4         GREEN2       74       GRE2         GREEN3       75       GRE3         GREEN4       76       GRE4         YELLOW2       77       YEL2         YELLOW3       78       YEL3         YELLOW4       79       YEL4			
TAN       61       TAN         THISTLE       62       THIS         TURQUOISE       63       TURQ         VIOLET       64       VIOL         WHEAT       65       WHEA         GREEN YELLOW       66       GYEL         LIGHT CYAN       67       LCYA         BLUE2       68       BLU2         BLUE3       69       BLU3         BLUE4       70       BLU4         CYAN2       71       CYA2         CYAN3       72       CYA3         CYAN4       73       CYA4         GREEN2       74       GRE2         GREEN3       75       GRE3         GREEN4       76       GRE4         YELLOW2       77       YEL2         YELLOW3       78       YEL3         YELLOW4       79       YEL4			
THISTLE       62       THIS         TURQUOISE       63       TURQ         VIOLET       64       VIOL         WHEAT       65       WHEA         GREEN YELLOW       66       GYEL         LIGHT CYAN       67       LCYA         BLUE2       68       BLU2         BLUE3       69       BLU3         BLUE4       70       BLU4         CYAN2       71       CYA2         CYAN3       72       CYA3         CYAN4       73       CYA4         GREEN2       74       GRE2         GREEN3       75       GRE3         GREEN4       76       GRE4         YELLOW2       77       YEL2         YELLOW3       78       YEL3         YELLOW4       79       YEL4			
TURQUOISE       63       TURQ         VIOLET       64       VIOL         WHEAT       65       WHEA         GREEN YELLOW       66       GYEL         LIGHT CYAN       67       LCYA         BLUE2       68       BLU2         BLUE3       69       BLU3         BLUE4       70       BLU4         CYAN2       71       CYA2         CYAN3       72       CYA3         CYAN4       73       CYA4         GREEN2       74       GRE2         GREEN3       75       GRE3         GREEN4       76       GRE4         YELLOW2       77       YEL2         YELLOW3       78       YEL3         YELLOW4       79       YEL4	'		
VIOLET       64       VIOL         WHEAT       65       WHEA         GREEN YELLOW       66       GYEL         LIGHT CYAN       67       LCYA         BLUE2       68       BLU2         BLUE3       69       BLU3         BLUE4       70       BLU4         CYAN2       71       CYA2         CYAN3       72       CYA3         CYAN4       73       CYA4         GREEN2       74       GRE2         GREEN3       75       GRE3         GREEN4       76       GRE4         YELLOW2       77       YEL2         YELLOW3       78       YEL3         YELLOW4       79       YEL4			
WHEAT       65       WHEA         GREEN YELLOW       66       GYEL         LIGHT CYAN       67       LCYA         BLUE2       68       BLU2         BLUE3       69       BLU3         BLUE4       70       BLU4         CYAN2       71       CYA2         CYAN3       72       CYA3         CYAN4       73       CYA4         GREEN2       74       GRE2         GREEN3       75       GRE3         GREEN4       76       GRE4         YELLOW2       77       YEL2         YELLOW3       78       YEL3         YELLOW4       79       YEL4			
GREEN YELLOW       66       GYEL         LIGHT CYAN       67       LCYA         BLUE2       68       BLU2         BLUE3       69       BLU3         BLUE4       70       BLU4         CYAN2       71       CYA2         CYAN3       72       CYA3         CYAN4       73       CYA4         GREEN2       74       GRE2         GREEN3       75       GRE3         GREEN4       76       GRE4         YELLOW2       77       YEL2         YELLOW3       78       YEL3         YELLOW4       79       YEL4			
LIGHT CYAN       67       LCYA         BLUE2       68       BLU2         BLUE3       69       BLU3         BLUE4       70       BLU4         CYAN2       71       CYA2         CYAN3       72       CYA3         CYAN4       73       CYA4         GREEN2       74       GRE2         GREEN3       75       GRE3         GREEN4       76       GRE4         YELLOW2       77       YEL2         YELLOW3       78       YEL3         YELLOW4       79       YEL4			
BLUE2       68       BLU2         BLUE3       69       BLU3         BLUE4       70       BLU4         CYAN2       71       CYA2         CYAN3       72       CYA3         CYAN4       73       CYA4         GREEN2       74       GRE2         GREEN3       75       GRE3         GREEN4       76       GRE4         YELLOW2       77       YEL2         YELLOW3       78       YEL3         YELLOW4       79       YEL4			
BLUE3       69       BLU3         BLUE4       70       BLU4         CYAN2       71       CYA2         CYAN3       72       CYA3         CYAN4       73       CYA4         GREEN2       74       GRE2         GREEN3       75       GRE3         GREEN4       76       GRE4         YELLOW2       77       YEL2         YELLOW3       78       YEL3         YELLOW4       79       YEL4			
BLUE4       70       BLU4         CYAN2       71       CYA2         CYAN3       72       CYA3         CYAN4       73       CYA4         GREEN2       74       GRE2         GREEN3       75       GRE3         GREEN4       76       GRE4         YELLOW2       77       YEL2         YELLOW3       78       YEL3         YELLOW4       79       YEL4			
CYAN2       71       CYA2         CYAN3       72       CYA3         CYAN4       73       CYA4         GREEN2       74       GRE2         GREEN3       75       GRE3         GREEN4       76       GRE4         YELLOW2       77       YEL2         YELLOW3       78       YEL3         YELLOW4       79       YEL4			
CYAN3       72       CYA3         CYAN4       73       CYA4         GREEN2       74       GRE2         GREEN3       75       GRE3         GREEN4       76       GRE4         YELLOW2       77       YEL2         YELLOW3       78       YEL3         YELLOW4       79       YEL4			
CYAN4       73       CYA4         GREEN2       74       GRE2         GREEN3       75       GRE3         GREEN4       76       GRE4         YELLOW2       77       YEL2         YELLOW3       78       YEL3         YELLOW4       79       YEL4			
GREEN2       74       GRE2         GREEN3       75       GRE3         GREEN4       76       GRE4         YELLOW2       77       YEL2         YELLOW3       78       YEL3         YELLOW4       79       YEL4			
GREEN3       75       GRE3         GREEN4       76       GRE4         YELLOW2       77       YEL2         YELLOW3       78       YEL3         YELLOW4       79       YEL4			
GREEN4       76       GRE4         YELLOW2       77       YEL2         YELLOW3       78       YEL3         YELLOW4       79       YEL4			
YELLOW2         77         YEL2           YELLOW3         78         YEL3           YELLOW4         79         YEL4			
YELLOW3 78 YEL3 YELLOW4 79 YEL4			
YELLOW4 79 YEL4			
ORANGE2 80 ORA2			
	ORANGE2	80	ORA2

COLOR	INDEX	NAME
====	=====	=======
ORANGE3	81	ORA3
ORANGE4	82	ORA4
RED2	83	RED2, LRED
RED3	84	RED3
RED4	85	RED4
MAGENTA2	86	MAG2, LMAG
MAGENTA3	87	MAG3
MAGENTA4	88	MAG4

In addition, gray scale can be specified with the following scheme:

```
G0 = BLACK
G1-G99 = GRAY SCALE FROM BLACK TO WHITE
G100 = WHITE
```

Gray scale values can also be specified with negative indices (that is, -1 through -100).

Currently, Postscript and X11 support gray scale. Other devices will map gray scale to either black or white.

Penplotters no longer automatically map an index to the corresponding slot. Although this is somewhat counter intuitive, it allows color names and indices to be treated consistently across all devices. DATAPLOT assumes the following slot to color mapping:

SLOT	4 PENS	8 PENS:
====	=====	======
1	BLACK	BLACK
2	RED	RED
3	BLUE	BLUE
4	GREEN	GREEN
5		MAGENTA
6		ORANGE
7		CYAN
8		YELLOW

You can use the <HPGL/CALCOMP/ZETA> PEN MAP command, documented in the Output Devices chapter, to specify a different slot to color mapping for HP-GL, Calcomp, and Zeta plotters respectively. The following command shows the available colors for all devices.

## **SHOW COLORS**

The following commands show the colors available on the various color devices that DATAPLOT supports. That is, they show the color you actually get with the requested DATAPLOT color for that device.

```
SHOW COLORS TEKT 4115
SHOW COLORS TEKT 4662
SHOW COLORS TEKT 4027
SHOW COLORS HP 2622
SHOW COLORS CALCOMP
SHOW COLORS ZETA
SHOW COLORS CGM
SHOW COLORS GENERAL
SHOW COLORS SUN
SHOW COLORS REGIS
SHOW COLORS POSTSCRIPT
```

## SHOW COLORS X11 SHOW COLORS PC

For some color display terminals (e.g., Tektronix 4105/7/9/15), the color can be altered locally after the plot has been generated on the screen. This gives the analyst a "second chance" if the original color choices do not mix well.

Finally, be wary of the idiosyncracies of color hardcopy devices. They rarely capture the same color hues as on the screen (e.g., the Tektronix 4662 ink jet plotter maps a brilliant blue on the 4105/7/9/15 screen into a drab purple on the hardcopy). Also note that it is common for color hardcopies to map screen white into hardcopy black and vice versa.